

Amendments to the Claims

Please amend Claims 1, 29 and 57, all as shown below. Applicant respectfully reserves the right to reinstate and prosecute any originally presented, canceled or amended claims in a continuing or future application.

1. (Currently Amended) A method for sharing files with remote users, the method comprising:
 - accepting, at a proxy server, a request from a file sharer to share a file in an original file location of the file sharer with a remote user, the file located at a file source inside an internal private network of the file sharer, said private network having a firewall;
 - ~~accessing the file sharer's credentials that enable the proxy server to access the file in the original location at the file source inside said private network;~~
 - ~~retrieving the file from the original location to the proxy server by using said file sharer's credentials;~~
 - ~~generating a proxy representation for the file in the original location on the proxy server, the proxy representation associated with the remote user and storing wherein the proxy representation enables remote access to modify the file in the original location inside the private network, wherein the proxy representation contains location information [[of]] used by the proxy server to locate the file inside said private network, and wherein the proxy representation contains stored credentials of the file sharer that are needed to access the file on the file source; on the proxy server, wherein the location information is used to reference the file in the original location inside the internal private network;~~
 - ~~enabling access to accessing the proxy representation for by the remote user that resides externally with respect to the internal private network, wherein the remote user is allowed to modify submits one or more modifications to the file by accessing the proxy representation on the proxy server;~~
 - receiving the one or more modifications to the file via the proxy representation; and
 - using the file sharer's credentials of the file sharer to update the file in the original location inside the internal private network ~~from where the file was retrieved~~ based on the modifications to the proxy representation received at the proxy server wherein the proxy server updates the file by using the location information contained in the proxy representation;
 - wherein after the updating, when the file sharer accesses the file in the original location, changes to the proxy representation made by the remote user are reflected in the file in the original

location; and

~~wherein changes made by the file sharer to the file in the original location are reflected in the proxy representation provided to the remote user.~~

2. (Original) The method of claim 1, wherein accessing the credentials comprises accepting the credentials from the file sharer.
3. (Original) The method of claim 1, wherein accessing the credentials comprises retrieving previously stored credentials.
4. (Original) The method of claim 1, further comprising using the credentials to store a cached copy of the file in association with the proxy representation.
5. (Original) The method of claim 1, further comprising storing the credentials in association with the proxy representation.
6. (Original) The method of claim 1, further comprising:
accepting a view request from the remote user; and
enabling the remote user to view the file.
7. (Original) The method of claim 1, further comprising:
accepting a share request from the remote user; and
enabling the remote user to share the file with a third party.
8. (Original) The method of claim 1, further comprising:
accepting an email request from the remote user; and
transmitting an email associated with the file.
9. (Original) The method of claim 1, further comprising:
accepting a print request from the remote user; and
transmitting a print request associated with the file to a remote print service.

10. (Original) The method of claim 1, further comprising:
accepting a fax request from the remote user; and
transmitting a fax request associated with the file to a remote fax service.
11. (Original) The method of claim 1, wherein the request comprises a request generated by:
viewing a representation of the file within a graphical user interface;
selecting the representation of the file within the graphical user interface;
viewing a menu associated with the file, the menu displaying actions that can be performed on the file; and
selecting a share option from the menu.
12. (Canceled)
13. (Original) The method of claim 1, wherein generating the proxy representation comprises generating a proxy representation configured to enable the remote user to read the file.
14. (Canceled)
15. (Original) The method of claim 1, further comprising determining if a database entry associated with the remote user is stored on an account database.
16. (Original) The method of claim 15, further comprising storing the proxy representation in association with the database entry associated with the remote user in response to a positive determination.
17. (Original) The method of claim 15, further comprising generating a new database entry associated with the proxy representation for the remote user in response to a negative determination.
18. (Original) The method of claim 17, further comprising transmitting an email containing a registration key to the remote user.

19. (Original) The method of claim 1, further comprising accepting a retrieval request from the remote user.

20. (Original) The method of claim 19, further comprising using the credentials to retrieve the file.

21. (Original) The method of claim 19, wherein the retrieval request includes authentication information for the remote user.

22. (Original) The method of claim 19, further comprising providing access to a cached version of the file.

23. (Original) The method of claim 19, further comprising accepting a modification request from the remote user.

24. (Original) The method of claim 23, wherein the modification request includes authentication information.

25. (Original) The method of claim 23, further comprising using the credentials to modify the file.

26. (Original) The method of claim 23, further comprising:
modifying a cached version of the file in response to the modification request; and
notifying the file sharer that the cached version has been modified.

27. (Original) The method of claim 26, further comprising synchronizing the file with the cached version in response to a request from the file sharer.

28. (Original) The method of claim 25, further comprising notifying the file sharer that the file has been modified.

29. (Currently Amended) A system for sharing files with remote users, the system comprising:

 a proxy server that includes a proxy database storing proxy representations, the proxy database being embodied in a computer readable storage medium, wherein the proxy representations are configured to enable access to files for remote users; and

 a proxy stored on the computer readable storage medium and configured to:

 accept, at the proxy server, a request from a file sharer to share a file in an original location with a remote user, the file located at a file source inside an internal private network of the file sharer, said private network having a firewall;

 access the file sharer's credentials that enable the proxy server to access the file in the original location at the file source inside said private network;

 retrieve the file from the original location to the proxy server by using said file sharer's credentials;

 generate a proxy representation for the file on the proxy server wherein the proxy enables remote access to modify the file in the original location inside the private network, wherein the proxy contains location information used by the proxy server to locate the file inside said private network, and wherein the proxy contains stored credentials of the file sharer that are needed to access the file on the file source;

 enable access to the proxy representation for the remote user that resides externally with respect to the internal private network, wherein the remote user ~~is allowed to modify submits one or more modifications to the file by accessing~~ the proxy representation on the proxy server;

 receive the one or more modifications to the file via the proxy; and

 use ~~the file sharer's credentials of the file sharer~~ to update the file in the original location inside the internal private network ~~from where the file was retrieved~~ based on the modifications to the proxy received at the proxy server wherein the proxy server updates the file by using the location information contained in the proxy;

 wherein after the updating, when the file sharer accesses the file in the original location, changes to the proxy representation made by the remote user are reflected in the file in the original location; and

wherein changes made by the file sharer to the file in the original location are reflected in the proxy representation provided to the remote user.

30. (Original) The system of claim 29, wherein the proxy, when accessing the credentials, accepts the credentials from the file sharer.
31. (Original) The system of claim 29, wherein the proxy, when accessing the credentials, retrieves previously stored credentials.
32. (Original) The system of claim 29, wherein the proxy is further configured to use the credentials to store a cached copy of the file in association with the proxy representation.
33. (Original) The system of claim 29, wherein the proxy is further configured to store the credentials in association with the proxy representation.
34. (Original) The system of claim 29, wherein the proxy is further configured to:
 - accept a view request from the remote user; and
 - enable the remote user to view the file.
35. (Original) The system of claim 29, wherein the proxy is further configured to:
 - accept a share request from the remote user; and
 - enable the remote user to share the file with a third party.
36. (Original) The system of claim 29, wherein the proxy is further configured to:
 - accept an email request from the remote user; and
 - transmit an email associated with the file.
37. (Original) The system of claim 29, wherein the proxy is further configured to:
 - accept a print request from the remote user; and
 - transmit a print request associated with the file to a remote print service.
38. (Original) The system of claim 29, wherein the proxy is further configured to:
 - accept a fax request from the remote user; and
 - transmit a fax request associated with the file to a remote fax service.

39. (Original) The system of claim 29, wherein the request comprises a request generated by:
viewing a representation of the file within a graphical user interface;
selecting the representation of the file within the graphical user interface;
viewing a menu associated with the file, the menu displaying actions that can be performed
on the file; and
selecting a share option from the menu.

40. (Canceled)

41. (Original) The system of claim 29, wherein the proxy, when generating the proxy
representation, generates a proxy representation configured to enable the remote user to read the
file.

42. (Canceled)

43. (Original) The system of claim 29, wherein the proxy is further configured to determine if a
database entry associated with the remote user is stored on an account database.

44. (Original) The system of claim 43, wherein the proxy is further configured to store the proxy
representation in association with the database entry associated with the remote user in response
to a positive determination.

45. (Original) The system of claim 43, wherein the proxy is further configured to generate a new
database entry associated with the proxy representation for the remote user in response to a
negative determination.

46. (Original) The system of claim 45, wherein the proxy is further configured to transmit an
email containing a registration key to the remote user.

47. (Original) The system of claim 29, wherein the proxy is further configured to accept a
retrieval request from the remote user.

48. (Original) The system of claim 47, wherein the proxy is further configured to use the credentials to retrieve the file.

49. (Original) The system of claim 47, wherein the retrieval request includes authentication information for the remote user.

50. (Original) The system of claim 47, wherein the proxy is further configured to provide access to a cached version of the file.

51. (Original) The system of claim 29, wherein the proxy is further configured to accept a modification request from the remote user.

52. (Original) The system of claim 51, wherein the modification request includes authentication information.

53. (Original) The system of claim 51, wherein the proxy is further configured to use the credentials to modify the file.

54. (Original) The system of claim 51, wherein the proxy is further configured to:
modify a cached version of the file in response to the modification request; and
notify the file sharer that the cached version has been modified.

55. (Original) The system of claim 54, wherein the proxy is further configured to synchronize the file with the cached version in response to a request from the file sharer.

56. (Original) The system of claim 53, wherein the proxy is further configured to notify the file sharer that the file has been modified.

57. (Currently Amended) A computer program product, stored on a computer readable storage medium, and including computer executable instructions for controlling a processor to manage access to remote files, the instructions comprising instructions for:

accepting, at a proxy server, a request from a file sharer to share a file in an original file

location of the file sharer with a remote user, the file located at a file source inside an internal private network of the file sharer, said private network having a firewall;

~~accessing the file sharer's credentials that enable the proxy server to access the file in the original location at the file source inside said private network;~~

~~retrieving the file from the original location to the proxy server by using said file sharer's credentials;~~

~~generating a proxy representation for the file in the original location on the proxy server, the proxy representation associated with the remote user and storing wherein the proxy representation enables remote access to modify the file in the original location inside the private network, wherein the proxy representation contains location information [[of]] used by the proxy server to locate the file inside said private network, and wherein the proxy representation contains stored credentials of the file sharer that are needed to access the file on the file source; on the proxy server, wherein the location information is used to reference the file in the original location inside the internal private network;~~

~~enabling access to accessing the proxy representation for by the remote user that resides externally with respect to the internal private network, wherein the remote user is allowed to modify submits one or more modifications to the file by accessing the proxy representation on the proxy server;~~

~~receiving the one or more modifications to the file via the proxy representation; and~~

~~using the file sharer's credentials of the file sharer to update the file in the original location inside the internal private network from where the file was retrieved based on the modifications to the proxy representation received at the proxy server wherein the proxy server updates the file by using the location information contained in the proxy representation;~~

~~wherein after the updating, when the file sharer accesses the file in the original location, changes to the proxy representation made by the remote user are reflected in the file in the original location; and~~

~~wherein changes made by the file sharer to the file in the original location are reflected in the proxy representation provided to the remote user.~~

58. (Original) The computer program product of claim 57, wherein the instructions for accessing the credentials comprise instructions for accepting the credentials from the file sharer.

59. (Original) The computer program product of claim 57, wherein the instructions for accessing the credentials comprise instructions for retrieving previously stored credentials.

60. (Original) The computer program product of claim 57, further comprising instructions for using the credentials to store a cached copy of the file in association with the proxy representation.

61. (Original) The computer program product of claim 57, further comprising instructions for storing the credentials in association with the proxy representation.

62. (Original) The computer program product of claim 57, further comprising instructions for:
accepting a view request from the remote user; and
enabling the remote user to view the file.

63. (Original) The computer program product of claim 57, further comprising instructions for:
accepting a share request from the remote user; and
enabling the remote user to share the file with a third party.

64. (Original) The computer program product of claim 57, further comprising instructions for:
accepting an email request from the remote user; and
transmitting an email associated with the file.

65. (Original) The computer program product of claim 57, further comprising instructions for:
accepting a print request from the remote user; and
transmitting a print request associated with the file to a remote print service.

66. (Original) The computer program product of claim 57, further comprising instructions for:
accepting a fax request from the remote user; and
transmitting a fax request associated with the file to a remote fax service.

67. (Original) The computer program product of claim 57, wherein the request comprises a request generated by:
viewing a representation of the file within a graphical user interface;

selecting the representation of the file within the graphical user interface;

viewing a menu associated with the file, the menu displaying actions that can be performed on the file; and

selecting a share option from the menu.

68. (Canceled)

69. (Original) The computer program product of claim 57, wherein the instructions for generating the proxy representation comprise instructions for generating a proxy representation configured to enable the remote user to read the file.

70. (Canceled)

71. (Original) The computer program product of claim 57, further comprising instructions for determining if a database entry associated with the remote user is stored on an account database.

72. (Original) The computer program product of claim 71, further comprising instructions for storing the proxy representation in association with the database entry associated with the remote user in response to a positive determination.

73. (Original) The computer program product of claim 71, further comprising instructions for generating a new database entry associated with the proxy representation for the remote user in response to a negative determination.

74. (Original) The computer program product of claim 73, further comprising instructions for transmitting an email containing a registration key to the remote user.

75. (Original) The computer program product of claim 57, further comprising instructions for accepting a retrieval request from the remote user.

76. (Original) The computer program product of claim 75, further comprising instructions for using the credentials to retrieve the file.

77. (Original) The computer program product of claim 75, wherein the retrieval request includes authentication information for the remote user.

78. (Original) The computer program product of claim 75, further comprising instructions for providing access to a cached version of the file.

79. (Original) The computer program product of claim 77, further comprising instructions for accepting a modification request from the remote user.

80. (Original) The computer program product of claim 79, wherein the modification request includes authentication information.

81. (Original) The computer program product of claim 79, further comprising instructions for using the credentials to modify the file.

82. (Original) The computer program product of claim 79, further comprising instructions for: modifying a cached version of the file in response to the modification request; and notifying the file sharer that the cached version has been modified.

83. (Original) The computer program product of claim 82, further comprising instructions for synchronizing the file with the cached version in response to a request from the file sharer.

84. (Original) The computer program product of claim 81, further comprising instructions for notifying the file sharer that the file has been modified.

85–90. (Canceled)

91. (Previously Presented) The method of claim 1, further comprising: notifying the file sharer prior to updating the file in the original location to reflect the changes made to the proxy representation.

92. (Previously Presented) The method of claim 1, wherein the proxy server, after receiving the modifications to the proxy representation, automatically logs into the file source by using the credentials and updates the file in the original location from which the file was originally retrieved to reflect the changes made to the proxy representation at the proxy server.

93. (Previously Presented) The system of claim 29, wherein the proxy is further configured to: notify the file sharer prior to updating the file in the original location to reflect the changes made to the proxy representation.

94. (Previously Presented) The system of claim 29, wherein the proxy server, after receiving the modifications to the proxy representation, automatically logs into the file source by using the credentials and updates the file in the original location from which the file was originally retrieved to reflect the changes made to the proxy representation at the proxy server.

95. (Previously Presented) The computer program product of claim 57, further comprising instructions for:

notifying the file sharer prior to updating the file in the original location to reflect the changes made to the proxy representation.

96. (Previously Presented) The computer program product of claim 57, wherein the proxy server, after receiving the modifications to the proxy representation, automatically logs into the file source by using the credentials and updates the file in the original location from which the file was originally retrieved to reflect the changes made to the proxy representation at the proxy server.